



**MISSOURI DEPARTMENT OF TRANSPORTATION**  
**MINIMUM 50-TON HYDRAULIC DETACHABLE GOOSENECK EQUIPMENT TRAILER**

The intent of this specification is to secure a trailer suitable for transportation equipment at over-the-road speeds up to 70 M.P.H. and one that will allow one person to easily load and unload equipment.

**MODEL:** Minimum 50 ton payload, tri axle; Minimum 100,000 lbs in 16' foot; Hydraulic removable gooseneck

**WIDTH:** 102 inches for main and rear raised platform.

**LENGTH:** Approximate 53'.

**NECK:** Approximate 12' length goose neck; hydraulic removable, non ground bearing, high-lift design, standard profile scraper style, full capacity lifting ability, power source a wet kit from the tractor, pin and stirrup to deck design, Fifth Wheel King Pin hitch; fifth wheel loaded height approximate 50", cylinder support arm(s), and air operated self locking deck lock. Include wheel fenders.

**SWING CLEARANCE:** Swing clearance shall be approximately 96".

**MAIN FRAME DESIGN:** 4 Beam design. All beams to be constructed with appropriate camber for trailer capacity. No splicing of flanges or webs will be accepted. Minimum 100,000-psi yield strength material required for all main structural beams. Deck height loaded approximate 24"; deck width 102"; minimum 24' deck length. Outriggers shall be 12" swingouts on 2' centers (with double outriggers at front). Slope front top deck with traction bars. Bucket well in rear section of main platform with inlay plate and in center of rear raised platform. Must have D - rings and flag holders in bolsters; Front flip ramps, minimum 31" long x 18 or 20" wide with front traction bars must be included.

**FLOOR DECKING:** 2" nominal Apitong; Decking shall be secured to the frame with deck screws at every crossmember. Full center area must be filled with Apitong wood decking.

**CAPACITY:** Minimum 50-ton payload.

**TIE DOWNS:** 16 D- rings on main bed 8 per side.

**CROSSMEMBERS BEAMS:** 24" centers spacing, minimum one 10" High Tensile I beam(s) that are pierced through main beams that are on 24" centers. Provide stubbed crossmembers in outside bays on 12" centers.

**SUSPENSION:** Shall be air ride with raise and lowering valve.

**AXLES:** (3) Heavy-duty 25,000 lb. Hubs must be piloted with outboard drums; Oil bath bearings; A hub odometer, which registers in miles, should be installed on one of the axles. Axle spacing shall be approximate 54". Must have load-bearing bolsters between all axles and behind 3<sup>rd</sup> axle. An airlift located behind 3<sup>rd</sup> axle shall also be included.

**WHEELS. / TIRES:** Steel Hub pilot outboard brake drum Wheels 7.50 x 22.5; Tires: 255/70R 22.5 Goodyear LRH, 16 Ply radials (or equivalents).

**WHEEL COVERS:** Must provide bolt on wheel covers on all axles.

**BRAKES:** 16-1/2x7 air brakes with ABS, 4S2M Antilock brakes.

**KING PIN SETTING:** Minimum 15".

**LIGHTS:** Sealed and rubber mounted lights and sealed harness system that meets DOT regulations. Electrical system shall be a 12-volt 7-way sealed system. Include a mid-turn signal/clearance light.



**PAINT:** Shot or sand blasted, primed and finished with a polyurethane standard manufacturer colors. Trailer shall be painted prior to decking.

**MISCELLANEOUS:** Provide and install the following anti-sail mud flaps; Automatic slack adjusters; This unit shall have a lockable, hinged covered toolbox of mild steel construction built into the unit for storage of chains and miscellaneous items.

All items appearing in Manufacturer's published literature and specifications as standard are assumed to be included in bidders proposal.

The Missouri Department of Transportation Commission reserves the right to waive technicalities and to reject any or all bids and no bid is final until formally accepted by the commission.

**\*\*\*ANY EXCEPTIONS TO THE ABOVE SPECS MUST BE NOTED ON A SEPARATE SHEET OF PAPER\*\*\***